

## EAST Search History

## EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	117	battery and charg\$3 and display and (micro \$1processor or micro \$1computer or C\$1P\$1U\$1) and ((test\$3 or monitor\$3 or detect\$3 or sens\$3 or measur \$3) with battery) and ((test \$3 or detect\$3) with starter) and (vehicle or car or automobile)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/12/06 15:51
S2	19	S1 and conductance and resistance and impedance and admittance	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/15 20:18
S3	68	S1 and cranking	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/15 20:18
S4	31	S1 and (bad with (battery or cell))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/15 20:19
S5	59	S1 and (idle or quiescent or (no with load))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/11/15 08:54
S6	87	S1 and temperature	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/15 20:20
S7	11	S1 and (surface with charge)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/15 20:21
S8	6	S2 and S3 and S4 and S5 and S6 and S7	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/15 20:21
S10	816	(324/426).OCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/11/16 15:18
S11	9	((("6885195") or ("6445158") or ("6351102") or ("6091245") or ("6051976")).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/11/24 16:10

S12	11	(micro\$1processor or micro \$1computer or CPU or micro \$1controller) and (battery or accumulator) and (test\$3 or measur\$3 or sens\$3 or monitor\$3) and starter and display and (conductance or resistance or impedance or admittance) and ((cranking with voltage) or CCM) and (idl \$3 or quiescent or parked) and load and temperature and (capacity or SOC or state \$1of\$1charge) and rating and (faulty or bad or replace) and (good or recharge or fully) and (analog \$1to\$1digital or A\$1D) and (amplifier or boost or flyback) and (vehicle or car or automobile or transportation)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/11/24 16:21
S13	279	("2514745"   "3356936"   "3562634"   "3593099"   "3607673"   "3676770"   "3729989"   "3753094"   "3808522"   "3811089"   "3873911"   "3876931"   "3886443"   "3889248"   "3906329"   "3909708"   "3936744"   "3946299"   "3947757"   "3969667"   "3979664"   "3984762"   "3984768"   "3989544"   "4008619"   "4024953"   "4053824"   "4070624"   "4086531"   "4112351"   "4114083"   "4126874"   "4178546"   "4193025"   "4207611"   "4217645"   "4315204"   "4316185"   "4322685"   "4363407"   "4369407"   "4379989"   "4379990"   "4390828"   "4392101"   "4396880"   "4408157"   "4412169"   "4423378"   "4423379"   "4424491"   "4459548"   "4514694"   "4520353"   "4633418"   "4659977"   "4663580"   "4667143"   "4667279"   "4678998"   "4679000"   "4680528"   "4697134"   "4707795"   "4709202"   "4710861"   "4719428"   "4743855"   "4745349"   "4816768"	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/24 16:26

"4820966"	"4825170"
"4847547"	"4849700"
"4876495"	"4881038"
"4912416"	"4913116"
"4929931"	"4931738"
"4937528"	"4947124"
"4956597"	"4968941"
"4968942"	"5004979"
"5032825"	"5047722"
"5087881"	"5126675"
"5140269"	"5144218"
"5144248"	"5160881"
"5170124"	"5179335"
"5204611"	"5214370"
"5214385"	"5241275"
"5254952"	"5266880"
"5281919"	"5281920"
"5295078"	"5298797"
"5300874"	"5302902"
"5315287"	"5321626"
"5331268"	"5336993"
"5338515"	"5339018"
"5343380"	"5347163"
"5352968"	"5365160"
"5365453"	"5381096"
"5412323"	"5426371"
"5426416"	"5432426"
"5434495")	FN. OR
("5435185"	"5442274"
"5445026"	"5449996"
"5449997"	"5451881"
"5457377"	"5469043"
"5485090"	"5488300"
"5519383"	"5528148"
"5537967"	"5546317"
"5548273"	"5550485"
"5561380"	"5562501"
"5572136"	"5574355"
"5583416"	"5585728"
"5589757"	"5592093"
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"5675234"	"5677077"
"5699050"	"5701089"
"5705929"	"5710503"
"5717336"	"5717937"
"5739667"	"5747909"
"5757192"	"5760587"
"5773978"	"5789899"
"5793359"	"5808469"
"5821756"	"5825174"
"5831435"	"5862515"
"5872443"	"5895440"
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"5939855"	"5939861"

		"5945829"   "5969625"   "6002238"   "6008652"   "6009369"   "6031354"   "6037751"   "6037777"   "6051976"   "6072299"   "6072300"   "6081098"   "6091245"   "6094033"   "6104167"   "6114834"   "6137269"   "6150793"   "6163156"   "6172483"   "6172505"   "6222369"   "6225808"   "6249124"   "6250973"   "6254438"   "6259254"   "6262563"   "6294896"   "6294897"   "6304087"   "6310481"   "6313607"   "6313608"   "6316914"   "6323650"   "6329793"   "6331762"   "6332113"   "6351102").FN. OR ("6445158").URPN.				
S14	56	("4937528"   "5321627"   "5381096"   "5404106"   "5635842"   "5672951"   "5680050"   "5705929"   "5721688"   "5744962"   "5751217"   "5761072"   "5828218"   "5900734"   "6091228"   "6097193").FN. OR ("6424157").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/24 16:27
S15	256	("2514745"   "3356936"   "3562634"   "3593099"   "3607673"   "3676770"   "3729989"   "3753094"   "3808522"   "3811089"   "3873911"   "3876931"   "3886443"   "3889248"   "3906329"   "3909708"   "3936744"   "3946299"   "3947757"   "3969667"   "3979664"   "3984762"   "3984768"   "3989544"   "4008619"   "4024953"   "4053824"   "4070624"   "4086531"   "4112351"   "4114083"   "4126874"   "4178546"   "4193025"   "4207611"   "4217645"   "4315204"   "4316185"   "4322685"   "4363407"   "4369407"   "4379990"   "4390828"   "4392101"   "4396880"   "4408157"   "4412169"   "4423378"   "4423379"   "4424491"   "4459548"   "4514694"   "4520353"   "4633418"	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/24 16:27

"4659977"	"4667279"
"4678998"	"4679000"
"4697134"	"4707795"
"4709202"	"4710861"
"4719428"	"4743855"
"4745349"	"4816756"
"4816768"	"4820966"
"4825170"	"4849700"
"4876495"	"4881038"
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"4929931"	"4931738"
"4937528"	"4947124"
"4956597"	"4968941"
"4968942"	"5004979"
"5032825"	"5047722"
"5087881"	"5126675"
"5140269"	"5144218"
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"5170124"	"5179335"
"5204611"	"5214370"
"5214385"	"5241275"
"5254952"	"5266880"
"5281919"	"5281920"
"5295078"	"5298797"
"5300874"	"5302902"
"5315287"	"5321626"
"5331268"	"5336993"
"5338515"	"5339018"
"5343380"	"5347163"
"5352968"	"5365160"
"5365453"	"5381096"
"5412323"	"5426371"
"5426416"	"5432426"
"5434495"	"5442274"
"5449996"	"5449997"
"5451881")	PN. OR
("5457377"	"5469043"
"5485090"	"5488300"
"5519383"	"5528148"
"5537967"	"5546317"
"5548273"	"5550485"
"5561380"	"5562501"
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"5583416"	"5585728"
"5589757"	"5592093"
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"5602462"	"5606242"
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"5656920"	"5675234"
"5677077"	"5699050"
"5701089"	"5705929"
"5710503"	"5717336"
"5717937"	"5747909"
"5757192"	"5760587"
"5773978"	"5789899"
"5793359"	"5808469"
"5821756"	"5825174"

		"5831435"   "5862515"   "5872443"   "5895440"   "5914605"   "5929609"   "5939855"   "5939861"   "5945829"   "5969625"   "6002238"   "6008652"   "6009369"   "6031354"   "6037751"   "6037777"   "6051976"   "6072299"   "6072300"   "6081098"   "6091245"   "6094033"   "6104167"   "6114834"   "6137269"   "6150793"   "6163156"   "6172483"   "6172505"   "6250973"   "6254438"   "6304087"   "6310481"   "6313607"   "6313608"   "6316914").FN. OR ("6351102").URFN.				
S16	104	("3673588"   "4247813"   "4258421"   "4310888"   "4316134"   "4334425"   "4342022"   "4402054"   "4628872"   "4678998"   "4757463"   "4843575"   "4891971"   "4929931"   "4937528"   "4939502"   "4965549"   "4978291"   "4990885"   "5003478"   "5003479"   "5012421"   "5034889"   "5056023"   "5063513"   "5072391"   "5091856").FN. OR ("5450321").URFN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/24 16:32
S17	357	(320/104).OCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/11/24 16:33
S18	732	(320/132).OCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/11/24 16:55
S20	38	((("5369364") or ("6016047") or ("6215275") or ("6449726") or ("6777945") or ("20030194672") or ("20030036909") or ("RE37677") or ("6091238") or ("5780974") or ("5912534") or ("5614788") or ("5661368") or ("5081565") or ("20040049361") or ("20040051533") or ("20040054503") or ("4926330") or ("4949046"))	US-PGPUB; USPAT; USOCR	OR	OFF	2006/11/24 17:26

		or ("5321627") or ("5872453") or ("6037778") or ("6061638") or ("6275008") or ("6359442") or ("6384608") or ("6388448") or ("6396278") or ("6570385") or ("6629054") or ("D442503") or ("20020030495") or ("4352067") or ("4360780") or ("4723656") or ("4874679") or ("5432025") or ("5707015")).PN.				
S21	37	((("2514745") or ("3593099") or ("3607673") or ("3676770") or ("3729989") or ("3753094") or ("3808522") or ("3811089") or ("3873911") or ("3886443") or ("3889248") or ("3906329") or ("3909708") or ("3936744") or ("3946299") or ("3947757") or ("3969667") or ("3979664") or ("3984762") or ("3984768") or ("4008619") or ("4053824") or ("4070624") or ("4086531") or ("4112351") or ("4114083") or ("4126874") or ("4178546") or ("4193025") or ("4207611") or ("4315204") or ("4316185") or ("4322685") or ("4363407") or ("4369407") or ("4412169")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/11/24 17:50
S22	67	((("4390828") or ("4392101") or ("4396880") or ("4408157") or ("4423378") or ("4423379") or ("4424491") or ("4459548") or ("4514694") or ("4520353") or ("4667279") or ("4678998") or ("4679000") or ("4697134") or ("4707795") or ("4709202") or ("4710861") or ("4719428") or ("4743855") or ("4816768") or ("4820966") or ("4825170") or ("4849700") or ("4881038") or ("4912416") or ("4929931") or ("4931738") or ("4947124") or ("4956597") or ("4968941") or	US-PGPUB; USPAT; USOCR	OR	OFF	2006/11/24 18:15

		(("5004979") or ("5032825") or ("5047722") or ("5087881") or ("5126675") or ("5140269") or ("5144248") or ("5170124") or ("5204611") or ("5214370") or ("5214385") or ("5241275") or ("5254952") or ("5281919") or ("5281920") or ("5295078") or ("5298797") or ("5300874") or ("5302902") or ("5331268") or ("5336993") or ("5352968") or ("5343380") or ("5365160") or ("5365453") or ("5381096") or ("5426371") or ("5432426") or ("5434495") or ("5442274") or ("5457377") or ("5449996") or ("5449997") or ("5485090") or ("5519383") or ("5528148") or ("5550485") or ("5561380"))).				
S23	57	((("5562501") or ("5572136") or ("5574355") or ("5585728") or ("5592093") or ("5596260") or ("5598098") or ("5602462") or ("5606242") or ("5621298") or ("5642031") or ("5650937") or ("5652501") or ("5675234") or ("5677077") or ("5699050") or ("5701089") or ("5717336") or ("5757192") or ("5773978") or ("5789899") or ("5793359") or ("5821756") or ("5831435") or ("5872443") or ("5914605") or ("5945829") or ("3356936") or ("5488300") or ("6002238") or ("6037777") or ("6051976") or ("6081098") or ("6091245") or ("6104167") or ("6137269") or ("3562634") or ("4379990") or ("5144218") or ("5315287") or ("5469043") or ("5546317") or ("5583416") or ("5589757") or ("5656920") or ("5710503") or ("5760587") or ("5808469") or	US-PGPUB; USPAT; USOCR	OR	OFF	2006/11/25 18:09



		("6008652") or ("6009369") or ("6031354") or ("6037751") or ("6072299") or ("6094033") or ("6163156") or ("6172483") or ("6172505")).PN.				
S24	74	((("3989544") or ("4745349") or ("4876495") or ("4937528") or ("4968942") or ("5179335") or ("5266880") or ("5451881") or ("5705929") or ("5717937") or ("5862515") or ("5895440") or ("5929609") or ("6072300") or ("4659977") or ("4913116") or ("5160881") or ("5338515") or ("5537967") or ("5548273") or ("5747909") or ("6114834") or ("6150793") or ("3876931") or ("5347163") or ("5939861") or ("5339018") or ("5412323") or ("5426416") or ("5825174") or ("5939855") or ("5254952") or ("4217645") or ("4633418") or ("5321626") or ("5969625") or ("6222369") or ("6225808") or ("6249124") or ("6259254") or ("6262563") or ("6294896") or ("6294897") or ("4379989") or ("4680528") or ("5633985") or ("5739667") or ("4024953") or ("6250973") or ("6254438") or ("6304087") or ("6310481") or ("6313607") or ("6313608") or ("636914") or ("5435185") or ("5445026") or ("4667143") or ("4847547") or ("5574355") or ("4663580") or ("6323650") or ("6329793") or ("6331762") or ("6332113") or ("4297639") or ("5653659") or ("6161640") or ("4351405") or ("6359441") or ("4047091") or ("5653659") or ("5637978") or ("5095223") or ("5194799") or ("5754417")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/11/25 19:02

S25	51	((("5818234") or ("6140797") or ("6181545") or ("6346795") or ("6347958") or ("6351102") or ("6359441") or ("6363303") or ("5037778") or ("6144185") or ("5711648") or ("5927938") or ("5951229") or ("5961561") or ("5961604") or ("6236332") or ("6351102") or ("5821757") or ("6167349") or ("4665370") or ("4361809") or ("6392414") or ("6417669") or ("6424158") or ("6441585") or ("6445158") or ("6384608") or ("6388448") or ("6307349") or ("6411098") or ("6456045") or ("6466025") or ("6466026") or ("4564798") or ("5563496") or ("5796239") or ("4888716") or ("6495990") or ("4385269") or ("4686442") or ("6061638") or ("6359442") or ("5541489") or ("6424157") or ("6534993") or ("6544078") or ("6556019") or ("6566883") or ("6586941") or ("6597150") or ("20020171428") or ("6263268")).FN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/11/25 19:05
S26	70	((("5410754") or ("5654623") or ("6055468") or ("20030025481") or ("5313152") or ("20030184306") or ("20040000891") or ("3750011") or ("5159272") or ("5325041") or ("6526361") or ("6667624") or ("20020010558") or ("20020176010") or ("3652341") or ("5747967") or ("6628011") or ("5780980") or ("5412308") or ("6222342") or ("6679212") or ("5850113") or ("6242887") or ("6238253") or ("4056764") or ("6005759") or ("6064372") or ("5323337") or ("5978805") or ("6600815") or ("4933845"))).	US-PGPUB; USPAT; USOCR	OR	OFF	2006/11/25 19:11

		or ("6618644") or ("5982138") or ("4620767") or ("4934957") or ("5772468") or ("5108320") or ("5453027") or ("5865638") or ("3796124") or ("4280457") or ("4160916") or ("6356042") or ("6259170") or ("6081109") or ("6031368") or ("6211651") or ("6046514") or ("6531848") or ("4023882") or ("2000665") or ("6158000") or ("5745044") or ("5578915") or ("5592094") or ("6275008") or ("5872453") or ("5321627") or ("4949046") or ("4926330") or ("20020050163") or ("20030184262") or ("20040000891") or ("20040000590") or ("20040000893") or ("20040000913") or ("20040000915") or ("20040002824") or ("20040002825") or ("20040002836")).PN.				
S29	10	((("6215275") or ("5831435") or ("6016047") or ("6449726") or ("20030184262"))).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/12/05 17:42
S30	121	battery and charg\$3 and display and (micro \$1processor or micro \$1computer or C\$1P\$1U\$1) and ((test\$3 or monitor\$3 or detect\$3 or sens\$3 or measur \$3) with battery) and ((test \$3 or detect\$3) with starter) and (vehicle or car or automobile)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/12/06 15:52
S31	9	((("6885195") or ("6445158") or ("6351102") or ("6091245") or ("6051976"))).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/12/06 15:52

S32	38	((("5369364") or ("6016047") or ("6215275") or ("6449726") or ("6777945") or ("20030194672") or ("20030036909") or ("RE37677") or ("6091238") or ("5780974") or ("5912534") or ("5614788") or ("5661368") or ("5081565") or ("20040049361") or ("20040051533") or ("20040054503") or ("4926330") or ("4949046") or ("5321627") or ("5872453") or ("6037778") or ("6061638") or ("6275008") or ("6359442") or ("6384608") or ("6388448") or ("6396278") or ("6570385") or ("6629054") or ("D442503") or ("20020030495") or ("4352067") or ("4360780") or ("4723656") or ("4874679") or ("5432025") or ("5707015")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/12/06 15:52
S33	37	((("2514745") or ("3593099") or ("3607673") or ("3676770") or ("3729989") or ("3753094") or ("3808522") or ("3811089") or ("3873911") or ("3886443") or ("3889248") or ("3906329") or ("3909708") or ("3936744") or ("3946299") or ("3947757") or ("3969667") or ("3979664") or ("3984762") or ("3984768") or ("4008619") or ("4053824") or ("4070624") or ("4086531") or ("4112351") or ("4114083") or ("4126874") or ("4178546") or ("4193025") or ("4207611") or ("4315204") or ("4316185") or ("4322685") or ("4363407") or ("4369407") or ("4412169")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/12/06 15:52

S34	67	(("4390828") or ("4392101") or ("4396880") or ("4408157") or ("4423378") or ("4423379") or ("4424491") or ("4459548") or ("4514694") or ("4520353") or ("4667279") or ("4678998") or ("4679000") or ("4697134") or ("4707795") or ("4709202") or ("4710861") or ("4719428") or ("4743855") or ("4816768") or ("4820966") or ("4825170") or ("4849700") or ("4881038") or ("4912416") or ("4929931") or ("4931738") or ("4947124") or ("4956597") or ("4968941") or ("5004979") or ("5032825") or ("5047722") or ("5087881") or ("5126675") or ("5140269") or ("5144248") or ("5170124") or ("5204611") or ("5214370") or ("5214385") or ("5241275") or ("5254952") or ("5281919") or ("5281920") or ("5295078") or ("5298797") or ("5300874") or ("5302902") or ("5331268") or ("5336993") or ("5352968") or ("5343380") or ("5365160") or ("5365453") or ("5381096") or ("5426371") or ("5432426") or ("5434495") or ("5442274") or ("5457377") or ("5449996") or ("5449997") or ("5485090") or ("5519383") or ("5528148") or ("5550485") or ("5561380"))). PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/12/06 15:52
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S35	57	((("5562501") or ("5572136") or ("5574355") or ("5585728") or ("5592093") or ("5596260") or ("5598098") or ("5602462") or ("5606242") or ("5621298") or ("5642031") or ("5650937") or ("5652501") or ("5675234") or ("5677077") or ("5699050") or ("5701089") or ("5717336") or ("5757192") or ("5773978") or ("5789899") or ("5793359") or ("5821756") or ("5831435") or ("5872443") or ("5914605") or ("5945829") or ("3356936") or ("5488300") or ("6002238") or ("6037777") or ("6051976") or ("6081098") or ("6091245") or ("6104167") or ("6137269") or ("3562634") or ("4379990") or ("5144218") or ("5315287") or ("5469043") or ("5546317") or ("5583416") or ("5589757") or ("5656820") or ("5710503") or ("5760587") or ("5808469") or ("6008652") or ("6009369") or ("6031354") or ("6037751") or ("6072299") or ("6094033") or ("6163156") or ("6172483") or ("6172505"))).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/12/06 15:52
S36	74	((("3989544") or ("4745349") or ("4876495") or ("4937528") or ("4968942") or ("5179335") or ("5266880") or ("5451881") or ("5705929") or ("5717937") or ("5862515") or ("5895440") or ("5929609") or ("6072300") or ("4659977") or ("4913116") or ("5160881") or ("5338515") or ("5537967") or ("5548273") or ("5747909") or ("6114834") or ("6150793") or ("3876931") or ("5347163") or ("5939861") or ("5339018") or ("5412323") or ("5426416"))	US-PGPUB; USPAT; USOCR	OR	OFF	2006/12/06 15:52

		or ("5825174") or ("5939855") or ("5254952") or ("4217645") or ("4633418") or ("5321626") or ("5969625") or ("6222369") or ("6225808") or ("6249124") or ("6259254") or ("6262563") or ("6294896") or ("6294897") or ("4379989") or ("4680528") or ("5633985") or ("5739667") or ("4024953") or ("6250973") or ("6254438") or ("6304087") or ("6310481") or ("6313607") or ("6313608") or ("6316914") or ("5435185") or ("5445026") or ("4667143") or ("4847547") or ("5574355") or ("4663580") or ("6323650") or ("6329793") or ("6331762") or ("6332113") or ("4297639") or ("5653659") or ("6161640") or ("4351405") or ("6359441") or ("4047091") or ("5653659") or ("5637978") or ("5095223") or ("5194799") or ("5754417")).FN.				
S37	51	(("5818234") or ("6140797") or ("6181545") or ("6346795") or ("6347958") or ("6351102") or ("6359441") or ("6363303") or ("5037778") or ("6144185") or ("5711648") or ("5927938") or ("5951229") or ("5961561") or ("5961604") or ("6236332") or ("6351102") or ("5821757") or ("6167349") or ("4665370") or ("4361809") or ("6392414") or ("6417669") or ("6424158") or ("6441585") or ("6445158") or ("6384608") or ("6388448") or ("6307349") or ("6411098") or ("6456045") or ("6466025") or ("6466026") or ("4564798") or ("5563496") or ("5796239") or ("4888716") or ("6495990") or ("4385269") or	US-PGPUB; USPAT; USOCR	OR	OFF	2006/12/06 15:52

		("4686442") or ("6061638") or ("6359442") or ("5541489") or ("6424157") or ("6534993") or ("6544078") or ("6556019") or ("6566883") or ("6586941") or ("6597150") or ("20020171428") or ("6263268").PN.				
S38	70	((("5410754") or ("5654623") or ("6055468") or ("20030025481") or ("5313152") or ("20030184306") or ("20040000891") or ("3750011") or ("5159272") or ("5325041") or ("6526361") or ("6667624") or ("20020010558") or ("20020176010") or ("3652341") or ("5747967") or ("6628011") or ("5780980") or ("5412308") or ("6222342") or ("6679212") or ("5850113") or ("6242887") or ("6238253") or ("4056764") or ("6005759") or ("6064372") or ("5323337") or ("5978805") or ("6600815") or ("4933845") or ("6618644") or ("5982138") or ("4620767") or ("4934957") or ("5772468") or ("5108320") or ("5453027") or ("5865638") or ("3796124") or ("4280457") or ("4160916") or ("6356042") or ("6259170") or ("6081109") or ("6031368") or ("6211651") or ("6046514") or ("6531848") or ("4023882") or ("2000665") or ("6158000") or ("5745044") or ("5578915") or ("5592094") or ("6275008") or ("5872453") or ("5321627") or ("4949046") or ("4926330") or ("20020050163") or ("20030184262") or ("20040000891") or ("20040000590") or ("20040000893") or ("20040000913") or ("20040000915") or	US-PGPUB; USPAT; USOCR	OR	OFF	2006/12/06 15:52



		("20040002824") or ("20040002825") or ("20040002836")).PN.				
S39	10	((("6215275") or ("5831435") or ("6016047") or ("6449726") or ("20030184262"))).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/12/06 15:52
S40	18	(S31 or S34 or S33 or S32 or S36 or S37 or S38 or S35 or S39) and S30	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/12/06 15:55
S41	56	("4937528"   "5321627"   "5381096"   "5404106"   "5635842"   "5672951"   "5680050"   "5705929"   "5721688"   "5744962"   "5751217"   "5761072"   "5828218"   "5900734"   "6091228"   "6097193").PN. OR ("6424157").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/12/06 19:03
S42	30	("4178546"   "4926330"   "4967143"   "5181858"   "5281919"   "5649001"   "6172505"   "6351102").PN. OR ("6570385").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/12/06 19:04
S43	107	("2084086"   "3848181"   "3876931"   "4295097"   "4352067"   "4423379"   "4459548"   "4613822"   "4767977"   "4816768"   "4914383"   "4929931").PN. OR ("5254952").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/12/06 19:04
S44	606	(324/427).OOLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/12/06 19:19
S45	16	(US-20050017726-\$ or US- 20040054503-\$).did. or (US- 6051976-\$ or US-5426371-\$ or US-6445158-\$ or US- 6351102-\$ or US-5450321-\$ or US-6424157-\$ or US- 5831435-\$ or US-6215275-\$ or US-6777945-\$ or US- 6570385-\$ or US-5254952-\$ or US-6363303-\$ or US- 5701089-\$ or US-D354244- \$).did.	US-PGPUB; USPAT	OR	ON	2006/12/07 11:45

S47	1	S45 and display and (micro \$1processor or micro \$1computer or C\$1P\$1U\$1 or micro\$1controller) and battery and starter and (charging with system) and (rating or CCA or crank\$3) and (conductance or resistance or impedance or admittance) and (good or full \$1) and re\$1charge and (bad or replace) and load and temperature	US-PGPUB; USPAT	OR	ON	2006/12/07 11:52
S48	10	S45 and display and (micro \$1processor or micro \$1computer or C\$1P\$1U\$1 or micro\$1controller) and battery and starter and (charging with system) and (rating or CCA or crank\$3) and (conductance or resistance or impedance or admittance) and load and temperature	US-PGPUB; USPAT	OR	ON	2006/12/07 11:52
S49	2	S48 and (idle or quiescent) and (surface with charge)	US-PGPUB; USPAT	OR	ON	2006/12/07 11:54
S50	8	S48 and ripple	US-PGPUB; USPAT	OR	ON	2006/12/07 11:56
S51	9	S48 and (idle or quiescent)	US-PGPUB; USPAT	OR	ON	2006/12/07 11:59
S52	2	S48 and (surface with charge)	US-PGPUB; USPAT	OR	ON	2006/12/07 11:55
S53	8	S50 and S51	US-PGPUB; USPAT	OR	ON	2006/12/07 11:55
S54	6	S51 and (portable or hand \$1held)	US-PGPUB; USPAT	OR	ON	2006/12/07 12:02
S55	30	("4178546"   "4926330"   "4967143"   "5181858"   "5281919"   "5649001"   "6172505"   "6351102").PN. OR ("6570385").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/12/07 12:01
S56	6	S54 and ripple	US-PGPUB; USPAT	OR	ON	2006/12/07 12:02
S57	5	((("6885195") or ("6445158") or ("6351102") or ("6091245") or ("6051976"))).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/12/07 12:46
S58	2	S57 and (display and microprocessor and starter and (charging with system)).clm"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/12/07 12:47

S59	0	battery and (micro \$1processor or micro \$1computer or C\$1P\$1U\$1) and charg\$3 and ((temperature with input with user) and ((AC or (alternating with current)) with ripple with voltage) and (surface with charge with (sens\$3 or determin\$5 or measur\$3 or detect\$3 or monitor\$3)) and (head \$1lights with (prompt or command or notify) with ((switch or turn) with on)) and (print\$3 with output) and (diode with ripple with voltage) and ((measur\$3 or detect\$3 or sens\$3 or determin\$3 or monitor\$3) with ((AC and DC) with voltage)) and (amplifier with battery with capacitor) and (voltage with (scaling or scaled or scale)) and ((diesel with engine) same ((glow with plug) with (warm\$1up or warm or heat\$1up or heat)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/12/14 13:25
S60	1	battery and (micro \$1processor or micro \$1computer or C\$1P\$1U\$1) and charg\$3 and ((temperature with input with user) and ((AC or (alternating with current)) with ripple with voltage) and (surface with charge with (sens\$3 or determin\$5 or measur\$3 or detect\$3 or monitor\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/12/14 13:28
S61	46624	battery and (micro \$1processor or micro \$1computer or C\$1P\$1U\$1) and charg\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/12/14 13:31
S62	4895	S61 and (( "320"/\$.ccls. or "324"/\$.ccls. or "364"/\$.ccls. or "307"/\$.ccls.)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/12/14 13:32
S63	7	S62 and ((AC or (alternating with current)) with ripple with voltage) and (surface with charge with (sens\$3 or determin\$5 or measur\$3 or detect\$3 or monitor\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/12/14 13:34

S64	6	S63 and ((measur\$3 or detect\$3 or sens\$3 or determin\$3 or monitor\$3) with ((AC and DC) with voltage))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/12/14 13:33
S65	29	S62 and ((AC or (alternating with current)) with ripple with voltage) and ((measur\$3 or detect\$3 or sens\$3 or determin\$3 or monitor\$3) with ((AC and DC) with voltage))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/12/14 13:45
S66	49	S62 and (temperature with input with user)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/12/14 14:49
S67	93	S62 and (surface with charge with (sens\$3 or determin\$5 or measur\$3 or detect\$3 or monitor\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/12/14 14:50
S68	7	S67 and ((glow with plug) or (diesel with engine))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/12/14 14:53
S69	109	S62 and ((glow with plug) or (diesel with engine))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/12/14 14:53
S70	9	S62 and ((glow with plug) or glow\$1plug or (diesel with engine)) and ((warm\$1up or (warm with up)) same (indicat\$3 or detect\$3 or wait\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/12/14 14:55
S71	391	(320/104).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/07/23 10:05
S72	795	(320/132).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/07/23 10:05
S73	610	(324/427).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/07/23 10:05
S74	98	(S71 or S72 or S73) and @pd> "20061124"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/07/23 10:08

S75	137	battery and charg\$3 and display and (micro \$1processor or micro \$1computer or C\$1P\$1U\$1) and ((test\$3 or monitor\$3 or detect\$3 or sens\$3 or measur\$3) with battery) and ((test\$3 or detect\$3) with starter) and (vehicle or car or automobile)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/07/23 10:08
S76	50869	battery and (micro \$1processor or micro \$1computer or C\$1P\$1U\$1) and charg\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/07/23 10:08
S77	5199	S76 and ("320"/\$.ccls. or "324"/\$.ccls. or "364"/\$.ccls. or "307"/\$.ccls.)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/07/23 10:08
S78	95	S77 and (surface with charge with (sens\$3 or determin\$5 or measur\$3 or detect\$3 or monitor\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/07/23 10:08
S79	18	(S75 or S78) and @pd> "20061124"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/07/23 10:08
S80	414	(320/104).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/12/09 22:00
S81	839	(320/132).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/12/09 22:00
S82	610	(324/427).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/12/09 22:00
S83	165	(S80 or S81 or S82) and @pd> "20061124"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/12/09 22:01
S84	144	battery and charg\$3 and display and (micro \$1processor or micro \$1computer or C\$1P\$1U\$1) and ((test\$3 or monitor\$3 or detect\$3 or sens\$3 or measur\$3) with battery) and ((test\$3 or detect\$3) with starter) and (vehicle or car or automobile)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/12/09 22:00

S85	53633	battery and (micro \$1processor or micro \$1computer or C\$1P\$1U\$1) and charg\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/12/09 22:00
S86	5434	S85 and ("320"/\$.ccls. or "324"/\$.ccls. or "364"/\$.ccls. or "307"/\$.ccls.)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/12/09 22:00
S87	97	S86 and (surface with charge with (sens\$3 or determin\$5 or measur\$3 or detect\$3 or monitor\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/12/09 22:00
S88	26	(S84 or S87) and @pd> "20061124"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/12/09 22:00
S89	75	(S83 or S88) and @pd> = "20070723"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/12/09 22:00
S90	27	((("20040054503") or ("20040051533") or ("20030088375") or ("5,425,041") or ("20040000891") or ("5,508,599") or ("6,320,351") or ("5,402,007") or ("6,529,723") or ("20020041175") or ("6,177,737") or ("5,684,678"))).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2008/06/09 09:33
S91	24	((("20040054503") or ("20040051533") or ("20030088375") or ("5,425,041") or ("20040000891") or ("5,508,599") or ("6,320,351") or ("5,402,007") or ("6,529,723") or ("20020041175") or ("6,177,737") or ("5,684,678"))).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2008/06/09 09:33

S92	77	("4,969,834") or ("4,983,086") or ("4,781,629") or ("4,932,905") or ("4,521,498") or ("6,500,025") or ("4,057,313") or ("3,850,490") or ("6,850,037") or ("6,469,511") or ("6,871,151") or ("6,271,643") or ("6,100,670") or ("5,357,519") or ("6,623,314") or ("4,106,025") or ("6,850,037") or ("6,871,151") or ("6,885,195") or ("6,545,599") or ("6,738,697") or ("4,901,007") or ("20030088375") or ("5,034,893") or ("5,504,674") or ("5,402,007") or ("6,529,723") or ("6,888,468") or ("6,891,378") or ("6,906,522") or ("6,906,523") or ("6,909,287") or ("6,913,483") or ("6,914,413") or ("6,919,725") or ("6,930,485") or ("6,941,234") or ("6,686,542") or ("5,130,658") or ("20040002836") or ("5,903,716") or ("3,267,452") or ("4,907,176") or ("5,168,208") or ("6,904,796") or ("6,906,624") or ("20040145342") or ("20040113588") or ("20050254106") or ("20030169018") or ("6,087,815") or ("6,113,262") or ("6,407,554") or ("6,477,478") or ("6,532,425") or ("6,740,990") or ("6,784,635") or ("7,119,686") or	US-PGPUB; USPAT; USOCR	OR	OFF	2009/03/31 18:38
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		( "4,637,359") or ("6,037,749") or ("5,744,962") or ("5,747,189") or ("20040178185") or ("6,842,707") or ("6,621,272") or ("6,633,165") or ("20040044452") or ("20060089767") or ("6,037,745") or ("6,164,063") or ("20050043868") or ("20060030980") or ("20020004694") or ("6,745,153") or ("6,611,740") or ("20040239332") or ("20050256617") or ("20050182536").PN.				
S93	81	( ("5,820,407") or ("6,796,841") or ("6,696,819") or ("6,788,025") or ("6,805,090") or ("4,773,011") or ("5,778,326") or ("5,832,396") or ("5,883,306") or ("5,946,605") or ("20030187556") or ("20030214395") or ("20050102073") or ("20060217914") or ("5,585,416") or ("5,871,858") or ("6,377,031") or ("6,437,957") or ("6,465,908") or ("6,497,209") or ("6,507,196") or ("6,635,974") or ("6,736,941") or ("7,744,149") or ("6,933,727") or ("6,967,484") or ("6,998,847") or ("7,003,410") or ("7,003,411") or ("7,012,433") or ("7,058,525") or ("7,081,755") or ("7,106,070") or ("7,116,109") or ("7,126,341") or ("2,417,940") or ("2,727,221") or ("3,178,686") or	US-PGPUB; USPAT; USOCR	OR	OFF	2009/03/31 18:42



		("3,223,969") or ("5,109,213") or ("5,573,611") or ("6,218,936") or ("6,271,748") or ("20020044050") or ("20030009270") or ("6,505,507") or ("6,707,303") or ("6,737,831") or ("6,759,849") or ("6,781,382") or ("6,795,782") or ("6,806,716") or ("5,459,660") or ("6,599,243") or ("20040032264") or ("6,624,635") or ("7,272,519") or ("7,129,706") or ("6,456,036") or ("20040227523") or ("20050017726") or ("5,194,799") or ("4,901,007") or ("3,906,329") or ("5,561,380") or ("5,955,951") or ("6,005,489") or ("6,147,598") or ("20020118111") or ("6,536,536") or ("6,614,349") or ("20030212311") or ("20050021294") or ("6,845,279") or ("20050025299") or ("20050128083") or ("20050159847") or ("20050173142")).PN.				
S94	22	(US-20050017726-\$ or US-20040054503-\$ or US-20040051533-\$).did. or (US-5450321-\$ or US-6570385-\$ or US-6037749-\$ or US-6215275-\$ or US-6363303-\$ or US-D354244-\$ or US-4876513-\$ or US-6114833-\$ or US-4637359-\$ or US-6445158-\$ or US-6351102-\$ or US-6777945-\$ or US-5831435-\$ or US-6424157-\$ or US-6051976-\$ or US-5254952-\$ or US-5701089-\$ or US-5426371-\$ or US-5402007-\$).did.	US-PGPUB; USPAT	OR	ON	2010/06/05 17:01

S95	6	S94 and (start\$3 near4 voltage) and (crank\$3 near4 voltage)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2010/06/05 17:04
S96	5	S94 and (start\$3 near4 voltage) with low and (crank\$3 near4 voltage) with low	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2010/06/05 17:04
S97	5	S94 and (start\$3 near4 voltage) with low same battery and (crank\$3 near4 voltage) with low same battery	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2010/06/05 17:05
S98	5	S94 and (start\$3 near4 voltage) with low same battery with (voltage or capacity or low or fully) and (crank\$3 near4 voltage) with low same battery with (voltage or capacity or low or fully)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2010/06/05 17:05
S99	3	S98 and (alert or warn or display) with low	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2010/06/05 17:06
S100	1	S94 and (start\$3 near4 voltage) with low same battery with discharged and (crank\$3 near4 voltage) with low same battery with charged	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2010/06/05 17:13
S101	292	("2514745"   "3356936"   "3562634"   "3593099"   "3607673"   "3676770"   "3729989"   "3753094"   "3808522"   "3811089"   "3873911"   "3876931"   "3886443"   "3889248"   "3906329"   "3909708"   "3936744"   "3946299"   "3947757"   "3969667"   "3979664"   "3984762"   "3984768"   "3989544"   "4008619"   "4024953"   "4053824"   "4070624"   "4086531"   "4112351"   "4114083"   "4126874"   "4178546"   "4193025"   "4207611"   "4217645"   "4315204"   "4316185"   "4322685"   "4363407"   "4369407"   "4379990"   "4390828"   "4392101"   "4396880"   "4408157"   "4412169"   "4423378"	US-PGPUB; USPAT; USOCR	OR	ON	2010/06/05 17:21

"4423379"	"4424491"
"4459548"	"4514694"
"4520353"	"4633418"
"4659977"	"4667279"
"4678998"	"4679000"
"4697134"	"4707795"
"4709202"	"4710861"
"4719428"	"4743855"
"4745349"	"4816756"
"4816768"	"4820966"
"4825170"	"4849700"
"4876495"	"4881038"
"4912416"	"4913116"
"4929931"	"4931738"
"4937528"	"4947124"
"4956597"	"4968941"
"4968942"	"5004979"
"5032825"	"5047722"
"5087881"	"5126675"
"5140269"	"5144218"
"5144248"	"5160881"
"5170124"	"5179335"
"5204611"	"5214370"
"5214385"	"5241275"
"5254952"	"5266880"
"5281919"	"5281920"
"5295078"	"5298797"
"5300874"	"5302902"
"5315287"	"5321626"
"5331268"	"5336993"
"5338515"	"5339018"
"5343380"	"5347163"
"5352968"	"5365160"
"5365453"	"5381096"
"5412323"	"5426371"
"5426416"	"5432426"
"5434495"	"5442274"
"5449996"	"5449997"
"5451881")	FN. OR
("5457377"	"5469043"
"5485090"	"5488300"
"5519383"	"5528148"
"5537967"	"5546317"
"5548273"	"5550485"
"5561380"	"5562501"
"5572136"	"5574355"
"5583416"	"5585728"
"5589757"	"5592093"
"5596260"	"5598098"
"5602462"	"5606242"
"5621298"	"5642031"
"5650937"	"5652501"
"5656920"	"5675234"
"5677077"	"5699050"
"5701089"	"5705929"
"5710503"	"5717336"
"5717937"	"5747909"
"5757192"	"5760587"

		"5773978"   "5789899"   "5793359"   "5808469"   "5821756"   "5825174"   "5831435"   "5862515"   "5872443"   "5895440"   "5914605"   "5929609"   "5939855"   "5939861"   "5945829"   "5969625"   "6002238"   "6008652"   "6009369"   "6031354"   "6037751"   "6037777"   "6051976"   "6072299"   "6072300"   "6081098"   "6091245"   "6094033"   "6104167"   "6114834"   "6137269"   "6150793"   "6163156"   "6172483"   "6172505"   "6250973"   "6254438"   "6304087"   "6310481"   "6313607"   "6313608"   "6316914").PN. OR ("6351102").URPN.				
S102	0	S101 and (start\$3 near4 voltage) with low same battery with discharged and (crank\$3 near4 voltage) with low same battery with charged	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2010/06/05 17:22
S103	2	(start\$3 near4 voltage) with low same battery with discharged and (crank\$3 near4 voltage) with low same battery with charged	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2010/06/05 17:23
S104	18	(start\$3 near4 voltage) with low same battery with (message or alert or alarm or display) and (crank\$3 near4 voltage) with low same battery with (message or alert or alarm or display)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2010/06/05 17:39
S105	1	bertness-kevin.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2010/06/05 19:00
S106	10	troy-michael.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2010/06/05 19:00
S107	199	bertness-kevin\$\$.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2010/06/05 19:00

S108	13	troy-michael\$-\$.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2010/06/05 19:01
S109	7	S107 and S108	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2010/06/05 19:01

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